









NOTICE BOARD

Appointments
Universities
Surrey
Ulster
Edinburgh

Honorary degrees
Hennel
Ulster
Edinburgh

Open University programmes July 23 to July 29

- 15.00-15.20: U11. Announcements.
15.20-15.30: U12. The University and its role.
15.30-15.40: U13. The student experience.

CHARITY COMMISSION
Charity - The Bishop Lonsdale College of Education, Derby, Derbyshire.
Scheme for the establishment of Bishop Lonsdale School, Derby, Derbyshire.

SISCON The annual Science in a Social Context Group's Summer School
held at Colgate University, August 20-27, 1977.

Forthcoming events

A Linguistics Festival comprising five related summer schools organized by the Polytechnic of Central London will run until August 5.
An international conference on Nutrition Education organized under the auspices of the International Union of Nutritional Sciences...

Noticeboard is compiled by Patricia Santinelli and Pauline Downs

- 16.25: Staff, curriculum and society.
16.30: The development of the British Rhetoric and the Rhetoric of Britain.
16.35: The development of the British Rhetoric and the Rhetoric of Britain.

Why the AFE pooling system should be abandoned

Although financial matters are not explicitly in its terms of reference, the working group chaired by Mr Gordon Oakes currently considering the management of the maintained sector of higher education have given some thought to modification of the pooling arrangements for advanced further education.
At present, all advanced work in further education (AFE) is paid for out of the pool. All local authorities contribute to the pool on the basis of their school population...

John Pratt discusses a suggestion put to the Oakes working group on advanced further education
in proportion to the number of students from each authority who get advanced further education...

It is important, however, that authorities should be left to make their own arrangements; no government prompting or action is necessary. If an authority finds it has too much or too little FE provision...

The Oakes working group is believed to have considered two proposals, which go some way towards meeting these objections. The first is the pooling of FE provision...

Friday July 29
The development of the modern world in the 19th century.
The development of the modern world in the 20th century.

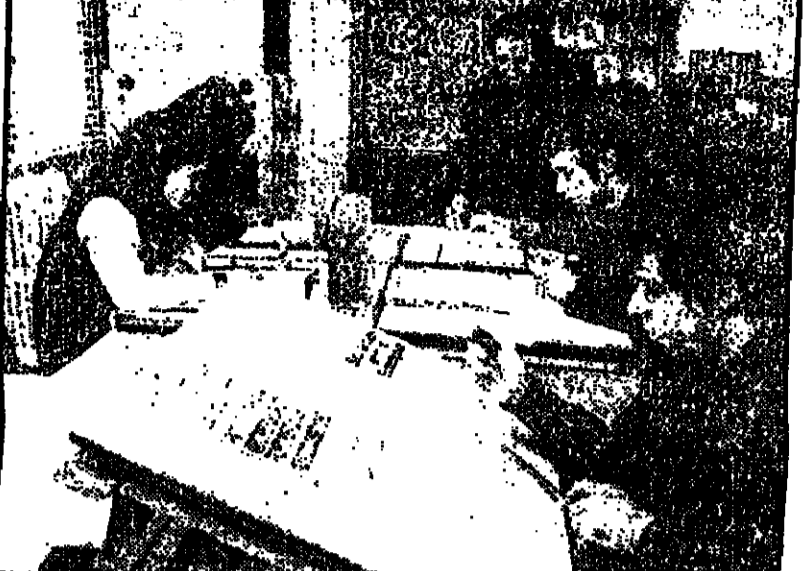
Wednesday July 27
6.00-6.30: The development of the modern world in the 19th century.
6.30-7.00: The development of the modern world in the 20th century.

Thursday July 28
6.00-6.30: The development of the modern world in the 19th century.
6.30-7.00: The development of the modern world in the 20th century.

here'll always be room for the individual entrepreneur
The transfer of experience should perhaps be measured by a research team; it probably far exceeds the level of the current application...

Bill Gage offers some words of advice to the academic 'moonlighter'
'Well, I'm awfully sorry, but secondary honours at third-year level will just have to be done in the morning after noon'...

Sometimes procedures for closing ranks seem unduly formal: application in writing to the professor or dean, for example, but no doubt these have arisen because of the legendary lecturer whose student contact hours were all deployed in weekend courses and evening seminars...



Further education students: abolishing the pool would provide an opportunity for abolishing fees.

non-advanced student numbers appear in the needs element formula.
of course, the rate support grant is meant to enable local authorities to spend their money as they wish, and not all categories of local authority expenditure appear as factors in the needs element.

Local authorities provide for AFE out of the rates and the rate support grant; in so far as they do so on the basis of other needs, like overcrowding or the numbers of old people, if the pool were abolished, central support for local authorities could reflect the number of students attending AFE courses in any area...

Abolishing the pool would present the opportunity to deal with anomalies in local authority funding. First, it would enable explicit provision to be made in the rate support grant for the burden of financing upon local authorities providing advanced further education (as in present expenditure on joint funding).

The proposal for local authorities should contribute towards the cost of providing AFE in proportion to the number of students from their area who get AFE also raises the question of fees: fees, in fact, already constitute such a payment.

The author is Director of the Centre for Institutional Studies at North East London Polytechnic.

The trend towards companies may, however, solve the last of the problems of moonlighting to be considered here. In engineering departments and science faculties, the moonlighter often needs to use college resources. His job may require a testing machine, or an electronic analysis of frequency or controlled conditions for biological experiments...

How does one obtain an invoice, much less an estimate, for using the torque-testing machine? Can a firm booking be made for computer time between 10.00 and 11.00 hours on Saturday, and what will it cost?

The most glaring problem for the 'moonlighter' is the formation of a college-owned company to provide consultancy services. He greets the mother-in-law with a professed suspicion hidden under smiles of welcome.

Not long ago, one new university announced that it was forming a limited company to exploit the opportunities which its staff had found for its services. This addition to its role in bringing the university and industry together on research, development, and consultancy, was to become an important source of revenue.

The budget was £110,000 for the first year. If about one third was attributed to each service segment, the consultancy at about £30,000 would represent 300 man-days of work.

There were no doubt some people on the staff who wondered, as they sat on the committee discussing the allocation of fee revenues, whether these would be 300 man-days of work.

The author is professor of management studies at the Polytechnic of Central London.

COURSE
STUDY AT HOME
DEGREE
Wolves Hall, the only approved college with full course for a degree in Business Administration.

STIMULUS OF MOONLIGHTING
A cartoon illustration showing a person at a desk with a lamp, looking thoughtful or tired, with the text 'STIMULUS OF MOONLIGHTING' written on a sign.



LETTERS TO THE EDITOR

Annan versus AV

Sir—Your recent correspondence (THES, July 1 and 8) regarding the cost-effectiveness of audio-visual education hinges directly on the question of evidence. Countering Lord Annan's view that the educational value of the audio-visual medium remains to be proved, Mr Geoffrey Hubbard states that favourable evidence of their worth, both educationally and in terms of cost reduction, is indeed available. This unfortunately is not quite sufficient in view of other good evidence to the contrary.

Then, what of the National Adult Literacy Campaign? This is perhaps unusual because it touches on emotional matters. But it is worth studying. In the past 18 months, over 100,000 adults have emerged and asked for help in reading and writing. Of course this result is not due solely to broadcasting. But the catalytic, recruitment and stimulating effects of broadcasting are widely acknowledged. The national literacy schemes, like the Open University, are tied to the total national bill. At first glance it does not save the nation money. But as a viable and economic system of non-formal adult education it has rarely been equalled.

Finally, what of the school broadcasting project 'You and Me' (over a third of the 22,000 schools with young children use these programmes. It is a resource project designed for children, teachers and parents as part of the home and school philosophy. It has integrated television and print materials. It did not exist, and the world would still go on—a fact which is true of many aspects of national life. But its value as a flexible and economic learning system involving young children, parents and teachers, seems to be unarguable.

What I am saying, in citing these three examples, is that the term "audio-visual aids" communicates the wrong way of thinking in relation to educational broadcasting. What the discussion should be about is the emergence of a variety of teaching systems—each reasonably flexible and each designed to the style of life of the user.

If you think in terms of distance study systems, then you begin to think again. And you get away from what I think is the old-fashioned idea of audio-visual aids. The BBC spends £8m of public money from its licence income on pre-school, school and further education levels. Looked at in relation to the £7,800m a year we spend on the whole of the educational system, I suggest that one gets a fresh view of its economic worth. Yours sincerely, DONALD GRATTAN, Controller, Educational Broadcasting, BBC, Broadcasting House, London W1A 1AA.

Sir—I refer to your report of Lord Annan's remarks on the subject of the economic worth of audio-visual aids in education. The field of audio-visual aids is very wide and there are many contributors. So, in confining my remarks to educational broadcasting I should like to comment briefly on three aspects of it.

The Open University uses broadcasting as one means of communicating with its students. Some say it does not need it and others say that the university has yet to use it widely effectively. Whatever the merits of the case, the Open University is a yardstick proved to be an extremely effective way of providing adults spread over the community with education of a high standard. The Open University may not have saved the nation money but as a distance learning system, involving broadcasting and other aids to learning, it has, in my view, led to the development of an extremely economical distance learning system.

Self-renewing libraries Sir—According to recent press reports, the vice-chancellors of the universities have issued a statement opposing the recommendations of the Atkinson report on "self-renewing" libraries.

Six months ago, you kindly published a letter from me inviting the university librarians—who had also opposed that report—to discuss "self-renewal" and to examine how one library proposed to implement the recommendations. Not unexpectedly, the response has been nil. Do not the universities and their vice-chancellors have some duty to examine both sides of a question before pronouncing judgment, particularly when their own solution, the status quo, involves continued heavy expenditure of money which has ultimately to be provided by the public?

Part-time law degrees Sir—Mr Bennett (THES, July 15) is understandably quick to blast the course which he runs, but his letter in no way detracts from the point of my article.

Human rights and academic freedom, including the right to migrate, for all Soviet scientists must be the goal. The Royal Society can help to achieve it by adopting a Carter-like approach: speak out at the right time about particular cases but seek constantly to extend Britain's scientific contacts with the Soviet Union.

Middlesex Poly directorate

Sir—May I comment on your report of the Middlesex Polytechnic's confidence in the directorate issue (THES, July 8). In your report of the governing body, you state that "some" members opposed the decision to postpone the examinations by a month. The position was that course leaders were consulted before the postponement. When the decision was announced, all course leaders concerned opposed the decision and must if not all complain about the lack of consultation.

It is now difficult to find anyone willing to take the blame or give the credit for the decision. The director claims he acted on the advice of the deputy director and the academic registrar. The deputy director now says he was all right and the academic registrar says he gave the advice after consulting the Council for National Awards.

The suggestion that it is possible for the directorate to communicate during the student's period is just plain nonsense. A meeting of course leaders was held despite the fact that the decision to call it was taken only a number of direct telephone calls and the internal mail system was working.

The governing body did not complete the agenda item on the confidence vote at the June 22 meeting and the adjourned meeting held on July 6, 1977, was inquorate. The members at the adjourned meeting did agree the chairman should seek to set a working party to enquire into the consultative and decision-making process of the polytechnic in both its formal and its informal aspects, and to make recommendations as to how to make these more effective.

Opinions may be divided on merits or otherwise of the no-confidence motion but there does appear to be general agreement that there are problems with the polytechnic's management structure. There is also strong support for a move towards a more decentralised decision-making structure. Yours faithfully, JOHN SHAW, Governor (academic board), Middlesex Polytechnic, Queensway, Enfield.

Practical year Sir—Question: "How do you view a year of related practical experience away from university during a degree course (for example in the Civil Service)?" This would imply a four-year course instead of three years.

Table with 2 columns: Question, Answer. Rows include 'Undesirable', 'Rather undesirable', 'Not important', 'Attractive', 'Essential', 'No idea', 'Total'.

(The figures for the boys and the girls were exactly the same.) These results are from part of a survey carried out by one of my colleagues, Keith Spence, of Mathematics and Statistics Department, Grammar School, Aylesbury. July 15 that the survey (THES, July 15) that the former for support among the work and study and for the which course principle. Yours faithfully, T. DERRICK, School of research in education, Bradford University.

Letters for publication should be sent by Tuesday morning at the latest. They should be as short as possible and the editor reserves the right to edit them.

The British Association FOR THE ADVANCEMENT OF SCIENCE

Published quarterly by The Times Higher Education Supplement in conjunction with The British Association

No 4, July 22, 1977

In this issue

This issue of British Association is devoted to various aspects of the work and activities of the British Association for the Advancement of Science. The first three articles are each devoted to topics being considered by separate BA study groups, although in each case, while the author is closely involved with the work of the group, the views expressed in the articles are entirely his or her own. On page 4, this year's president,

Professor Sir Andrew Huxley, FRS, discusses both the association's current activities, and some of the points he will be raising about attitudes to science in his presidential address to the BA's annual meeting at Aston University in Birmingham, from August 31 to September 7. The last four articles are each written by contributors to the annual meeting, and are intended to provide an introduction to their talks.



Sir Ian Muddock, CB, OBE, FRS, becomes secretary of the British Association for the Advancement of Science in succession to Dr Magnus Pyke on September 7, after the BA's annual meeting at Aston University. Sir Ian, until recently Chief Scientist at the Department of Industry, studied at the University of Wales. He had a distinguished career in government service, including the assistant directorship of the Atomic Weapons Research Establishment, and was controller of industrial technology at the Ministry of Technology. In 1975 he was president of the BA's general section (X).

Social concern and biological advances

The growing pains of growing old

by Walter Bodmer

Aging has, I am sure, been a problem for human society since time immemorial. But the problem does now seem to be more acute as the proportion of people surviving beyond the ages of 65 to 75 has increased so much. Why are there these changes and what are some of the major problems?

The classical and still very serious population problem is that of growth. This was first considered by Malthus in his essay "On the principle of population" just under 200 years ago. He pointed out that if a population increases at a geometric rate but its resources only increase at an arithmetic rate, resources will not keep up with the population. In Malthus's words, this must result in "misery and vice for mankind".

The sharp increase in population growth which took place, for example in most European countries from a period starting in the first half of the last century until some time after the middle of this century, was due to the fact that death rates declined before birth rates fell. This led to the rapid increases in rates of population growth often called "the demographic transition".

Death rates declined largely as a result of improved hygiene, nutrition and medical care. The decline in birth rates, on the other hand, has depended on complex interactions between social factors and the availability of birth control, or as Malthus put it, on the dissociation between procreation and "the passion between the sexes".

Today the more developed countries, mainly Europe, the United States and the Soviet Union, have more or less reached a state of equilibrium between birth and death rates, while most of the less developed countries are still unfortunately far short of that goal.



situation where there are many young and relatively few old people, to a situation where the proportion of people at different ages from young to old stays much the same, except for the very old. In the census of 1901, for example, about 1.3 per cent of the population was aged 75 and over, while now this proportion is more than 5 per cent, a more than three-fold increase. This proportion is, however, not expected to increase to more than about 6 per cent, and this in less than 10 years. Similarly, the present proportion of the population who are over 65, about 14 per cent, will change very little over the next 20 to 30 years.

The numbers of the very old, say those over 85, will however, continue to grow from the present 448,000 to an expected 634,000 by about the turn of the century, and that is an increase of nearly 50 per cent. This change largely reflects our better ability to look after the health of old people and, though the proportion of the very old in the population is quite small, they do, of course, require considerable resources for adequate health and social care.

The major effect of achieving a stable situation with a low birth rate and a low death rate, as all populations must eventually do, is, therefore, to have a completely changed age structure in the population.

Herein lies the neo-Malthusian problem, which includes that of aging and which we are only just beginning to face. Among the many major consequences are the much greater resources needed to cope with the health care of the older population, the relative reduction in the proportion of the population of school age, an inevitable change in patterns of consumption of all sorts of manufactured and other goods as tastes vary with age, and, perhaps most important, the need to revise radically our ideas about pensions and retirement policy and more generally the job structure of our society.

The British Association, having for many years played a major role in the communication of science to other scientists and to the public, has become increasingly aware of the role it can play in contributing to the discussion of the social consequences of important scientific advances. For the last few years I have been chairman of a committee of the British Association, called "The Committee for Social Concern and Biological Advances". Its role is to bring together scientists and non-scientists to help appreciate the social consequences of scientific advances.

Aging is certainly a major issue of our time, and one which has its origins mainly in scientific advances, and so it is to the problem of aging that our committee has devoted its attention over the past two or more years. Through this activity I have come to appreciate the tremendous importance of the problem of aging and the changed age structure of our society. The views I express in this article come from the opportunities in the field who have so willingly given time for our activities.

Lady Jean Medawar: Choices posed by scientific advance—II

J. A. Pope: Where are the engineers coming from?—III

Interview: Professor Andrew Huxley, president of the BA—IV

F. J. P. Clarke: Energy alternatives—IV

Alan Charig: Controversy on origin of birds—VI

W. T. Singleton: Consequences and theories of human error—VI

J. G. Hawkes: Problem of plant genetic conservation—VIII

British Association news—VIII

continued on page 11

الجمعة 15 1977





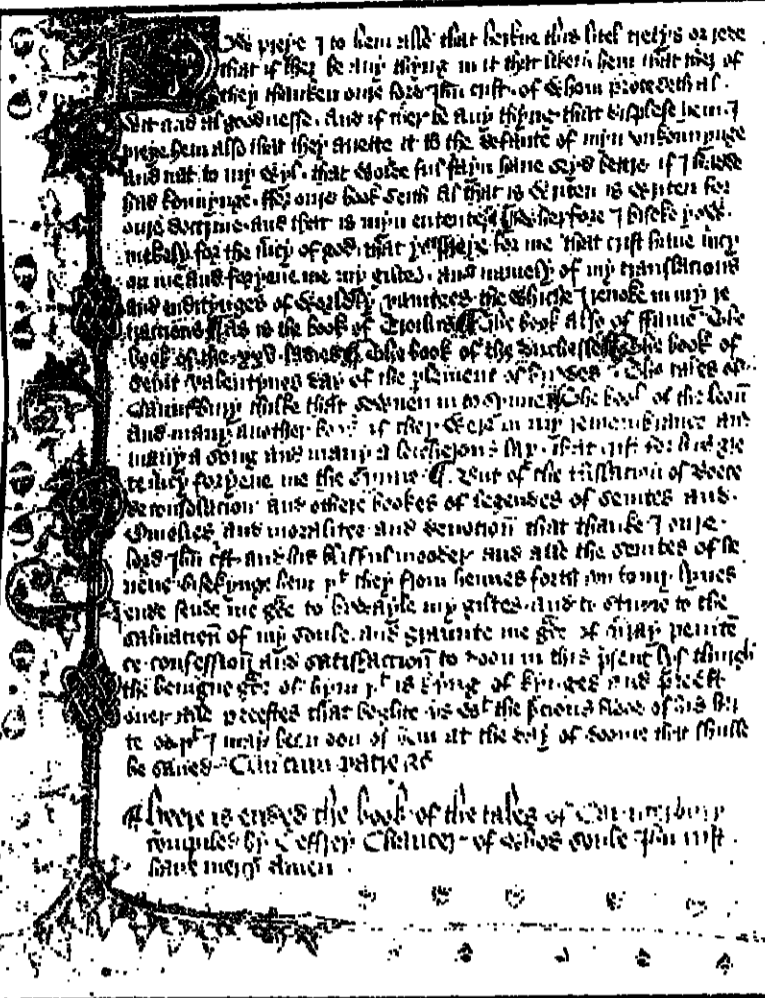








BOOKS



A large, bold and clear hand is characteristic of the Ellesmere MS of Chaucer's Canterbury Tales... it is thought to have been compiled in the London area in the evidence of dialect and orthography.

Poetry as the product of a learned tradition

Old English and Middle English Poetry by Derek Pearsall. Routledge & Kegan Paul, £8.75 ISBN 0 7100 8393 3. The general attitude to earlier English literature has changed a good deal for the better since 30 years ago.

investigation). The general prospect of what our brightest and best students of English wished to study was not entirely cheering.

from the seventeenth to mid-twentieth centuries. (I should add in fairness to Pearsall that he himself strongly objects to the term English Gothic literature.)

will get it any more right than we would get an early Gothic illumination right if we applied to it the criteria of Mannerist painting; or if we judged medieval modal music, such as plainsong, by the neoclassical criteria of eighteenth century harmonic melodies?

of being subject to the tremendous vicissitudes of the English language and culture. Some of the consequences are frustrating—vital evidence forever lacking, loss of continuity of status, only 30,000 lines of Old English poetry survive, though some of these are in the second half of the book is better than the "arrow of time".

Waging holy war

What Were the Crusades? by Jonathan Riley-Smith. Macmillan, £4.95 and £1.95 ISBN 0 333 21372 6 and 21373 4. A generation ago the title of this useful little book would have been dismissed as an insult.

How far has the pattern changed? What were the crusades? How deep do we look into their structure to achieve a reasonable decision? Mr Riley-Smith of Queen's College, Cambridge, one of the most experienced of the younger school of crusading historians, with his substantial work on the crusades, the military orders, and the Latin East already to his credit, achieves a legal and precise answer in his brief essay.

There is no such comfort possible for the terminal date. "The last crusade, in the true sense of the terms, cannot be dated," writes Riley-Smith: the knights of St John, the Hospitallers and the Crusaders, ecclesiastical taxes linked to indulgences and minor privileges, were to be found in Spain and Latin America to very modern times.

H. R. Loyd

In outer space

The Structure of the Universe by Jayant Narlikar. Oxford University Press, £4.25 and £1.95 ISBN 0 19 280882 4 and 217653 6. Pulsars by F. G. Smith. Cambridge University Press, £9.50 ISBN 0 521 21241 3. These two books differ greatly in their scope and treatment.

Griffin, now director of the Royal Greenwich Observatory, is well qualified for his task since he led the pulsar research at Jodrell Bank and made many important contributions. He was the first to use the unique properties of pulsar radiation as a means of measuring the distance to pulsars.

Risks from radiation

Radiation became an issue of public concern about 20 years ago, when large-scale atmospheric tests of nuclear weapons were carried out. More recently it came up again in connection with the increasing number of nuclear reactors.

He is obviously strongly in favour of nuclear power, but although he is correct in concluding that radiation hazards from the nuclear industry are small compared with other sources of radiation, he is not sufficient to justify nuclear power programs. More cogent arguments have been put forward in the economic, social and political considerations, including the danger of nuclear war.

John Roblat

Statistics are lovely

The Advanced Theory of Statistics, volume one Distribution Theory, fourth edition by Sir Maurice G. Kendall and A. Stuart. Griffin, £14.50 ISBN 0 85264 242 3. Studies in the History of Statistics edited by Sir Maurice G. Kendall and R. L. Plackett. Griffin, £12.00 ISBN 0 85264 232 6. These latest additions to Griffin's statistical stable, like many of their predecessors, will receive intensive attention from the statistical community.

work which is required here" have been replaced by X for further details. One unfavourable comparison is in the price, almost three times that of the third edition. As far as possible the authors have preserved notation and section numbers so that cross-referencing from other volumes is not disturbed. This lightens the value of the three volumes as an integrated work.

Keith Ord

Away with abstraction

Completeness and Basis Properties of Sets of Special Functions by J. R. Higgins. Cambridge University Press, £9.80 ISBN 0 521 21376 2. Integral Equations: A Short Course by L. G. Chambers. International Textbook Company, £7.00 ISBN 0 7002 0262 5. Both the books under review reflect, at their different levels, the growing feeling that mathematics has become too abstract.

Dr Chambers' text is a strictly concrete account of the theory of integral equations, treated as a rather isolated topic. The level of exposition is in the traditions of a methods course for second or third year undergraduates. A very brief section discusses problems which give rise to integral equations. Standard results concerning Fredholm and Volterra equations are treated simply. The theory is illustrated by examples.

J. A. Erdos

Among this week's reviewers Pi squared

Book Brewer has been elected as Master of Emmanuel College, Cambridge; John G. Fuller is fellow of Brasenose College, Oxford; Norman Kerby is lecturer in economic theory at the University of Hull; J. R. Higgins is professor of medieval history at University College, London; John Roblat is professor of physics and radiation protection officer at St Bartholomew's Hospital Medical School; Anthony Webber is a member of the Faculty of Mathematics, University of Hull. Derek Brewer is a member of the Faculty of Mathematics, University of Hull.

Pi squared

A History of Pi by P. Beckmann. St Martin's Press, £2.50. Paradoxically, this paperback reprint of the second edition (according to the title-page) contains a preface to the third edition; one feels it must please the author's humorous propensity. But though it is a light book of exceedingly Whiggish history, and the proof-reading is none too good, it contains a fund of information on squaring the circle—by E. T. Bell, out of Hobson as it were—which justifies the history of this problem is "a quaint little mirror of the history of man" at least as far as mathematics is concerned. No mathematics teacher in training should miss it.

Classified Advertisements Index

Appointments vacant
Universities
Fellowships & Studentships
Polytechnics
Technical Colleges
Colleges and Institutes of Technology
Colleges of Education
Colleges of Further Education

Colleges and Institutes of Higher Education
Colleges and Departments of Art
Research Posts
Administration Overseas
Adult Education
Librarians
General Vacancies

Appointments wanted
Other classifications
Awards
Announcements
Exhibitions
Official Appointments
Personal Courses
Holidays and Accommodation

Universities

OVERSEAS TEACHING POSTS

LECTURER IN ENGLISH LANGUAGE AND LITERATURE (JAPAN)
Oaoka University.
MA or PhD in English studies TEFL qualification highly desirable.

SENIOR LECTURER IN ENGLISH (POLAND)
Department of English, University of Silesia, Sosnowiec.
Degree and one year postgraduate TEFL qualification or MA in Applied Linguistics and at least one year's relevant experience.

SENIOR LECTURER IN ENGLISH (POLAND)
Department of English, Wyższa Szkoła Pedagogiczna (Pedagogical University) Bydgoszcz.
MA in English Literature and relevant teaching experience, PhD desirable.

LECTURER IN ENGLISH (POLAND)
Department of English, University of Gdansk.
MA in Theoretical or Applied Linguistics or Methodology and at least two years' relevant experience, PhD desirable. Male candidates preferred.

scheme; employer's portion of UK superannuation; one year contract renewable. 77 CU 100

HEAD OF PHARMACY AND SCIENCE (GHANA)
Kumasi Polytechnic.
To lecture in Bio-Chemistry including dispensing, pharmacology, physiology, mathematics and science at equivalent of City and Guilds Final Technical level and organize the department.

COMMUNICATION SKILLS IN ENGLISH PROGRAMME (SAUDI ARABIA)
King Abdul Aziz University, Jeddah.
This Programme has been developed over the last two years with British Council professional support and has involved the production of specialised teaching materials for the implementation of English Medium courses in the Faculties of Engineering and Medicine. Required for September, 1977.

SENIOR LECTURER IN ENGLISH (POLAND)
Department of English, Wyższa Szkoła Pedagogiczna (Pedagogical University) Bydgoszcz.
MA in English Literature and relevant teaching experience, PhD desirable.

LECTURER IN ENGLISH (POLAND)
Department of English, University of Gdansk.
MA in Theoretical or Applied Linguistics or Methodology and at least two years' relevant experience, PhD desirable. Male candidates preferred.

UNIVERSITY OF SCIENCE & TECHNOLOGY KUMASI, GHANA

Applications are invited from suitably qualified persons for the under-mentioned posts.

1. FACULTY OF SOCIAL SCIENCES DEPARTMENT OF GENERAL AND AFRICAN STUDIES POSTS: A. Lecturer/Senior Lecturer in Law (with special interest in Company, Commercial and/or Industrial Law). B. Lecturer/Senior Lecturer in Sociology (with special interest in Industrial Sociology or Social Psychology or Medical Sociology and Research). C. Lecturer in History (with special interest in Political Thought and International Relations). D. Lecturer in Geography (with special interest in Climatology or Geomorphology and Quantitative Methods).

UNIVERSITY OF MELBOURNE LECTURER: DEPARTMENT OF HISTORY
Applications are invited from suitably qualified persons for the following posts:

TRENT UNIVERSITY, ONTARIO DIRECTOR OF ADMINISTRATIVE AND POLICY STUDIES PROGRAMME
Trent University is creating an interdisciplinary programme leading to the degree of Bachelor of Administrative Studies.

BRADFORD THE UNIVERSITY ADMINISTRATIVE OFFICER
Applications are invited for the post of Administrative Officer in the Management Centre.

BRADFORD THE UNIVERSITY SENIOR LECTURER IN SOCIAL WORK
Applications are invited for the post of Senior Lecturer in Social Work.

BRUNEL THE UNIVERSITY LECTURER IN COMPUTER SCIENCE
Applications are invited for the post of Lecturer in Computer Science.

BRISTOL THE UNIVERSITY CHAIR IN ZOOLOGY
Applications are invited for the post of Chair in Zoology.

AUSTRALIA Griffith University
LECTURER: SOCIOLOGY/ANTHROPOLOGY
School of Humanities

University of Melbourne LECTURER: DEPARTMENT OF HISTORY
Applications are invited from suitably qualified persons for the following posts:

University of Queensland PROFESSOR OF ACCOUNTING
Applications are invited for the above-mentioned Chair within the Department of Commerce, vacant following the resignation of Professor R. S. Gwyther.

University of New South Wales Sydney FACULTY OF MILITARY STUDIES
The University has established a Faculty of Military Studies at the Royal Military College, Duntroon, Canberra.

Macquarie University Sydney LECTURER IN CHEMISTRY
The successful applicant will be expected to teach undergraduate level theoretical and physical chemistry and will have research interests which lie within the area of the biochemistry.

La Trobe University PROFESSOR OF ECONOMICS (FIFTH CHAIR: ECONOMIC THEORY)
Besides research and teaching economic theory the appointee will, if it is hoped, encourage work on theoretical models by postgraduate students.

Health Commission of New South Wales The University of Sydney PROFESSOR OF MEDICINE
The successful applicant for each Chair will also be expected to participate in the continuing development of the Department's laboratory in either of the above research programmes.

Flinders University of South Australia LECTURER IN ENGLISH
School of Humanities
The English discipline presently offers a full range of standard English literature courses with Honours and Postgraduate studies.

University of Bradford CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY

PROFESSOR OF MATHEMATICS
The main function of the Department of Mathematics in the provision of pre-university and university courses in the Faculty of Engineering, Civil and Electrical and Surveying, and in the Faculty of Business Administration, Architecture and Building, and Other Functions include the development of teaching methods which enable students to learn Mathematics more readily in what is a closely related field with the Mathematics Education component.

PROFESSOR OF MECHANICAL ENGINEERING
Applications should have extensive teaching and administrative experience in higher education, special expertise in some branch of mechanical engineering and a recognition of some of the problems facing technological education in a developing country.

UNIVERSITY OF NAIROBI, KENYA PROFESSOR IN DEPARTMENT OF SOCIOLOGY
Applications must have a Ph.D. in Sociology and several years' University teaching and research experience.

UNIVERSITY OF WEST INDIES, JAMAICA LECTURER/ASSISTANT LECTURER IN BOTANY
The University will increase its Botany Department by the appointment of a Lecturer in Botany.

UNIVERSITY OF WEST INDIES, TRINIDAD MECHANICAL ENGINEERING SENIOR LECTURER/ASSISTANT LECTURER IN PRODUCTION MANAGEMENT AND/OR MANUFACTURING PROCESSING
The University of the West Indies, Trinidad, is seeking applications for the following posts:

UNIVERSITY OF WESTERN AUSTRALIA Perth PROFESSOR AND HEAD OF THE DEPARTMENT
Applications are invited from suitably qualified persons for appointment to the post of Professor and Head of the Department.

UNIVERSITY OF BRADFORD CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

UNIVERSITY OF BRADFORD CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

ASTON IN BIRMINGHAM THE UNIVERSITY

Applications are invited for the following posts: LECTURER/ASSISTANT LECTURER IN THE DEPARTMENT OF CHEMICAL ENGINEERING

Applications should possess a good honours degree in Chemical Engineering, or an equivalent qualification, and higher degree, relevant teaching experience and membership of the Institution of Professional Engineers.

Applications are invited for the following posts in the Faculty of Engineering: 1. MECHANICAL ENGINEERING SENIOR LECTURER/ASSISTANT LECTURER IN PRODUCTION MANAGEMENT AND/OR MANUFACTURING PROCESSING

Applications are invited for the following posts in the Faculty of Engineering: 2. ELECTRICAL ENGINEERING SENIOR LECTURER/ASSISTANT LECTURER IN POWER SYSTEMS AND MACHINES

Applications are invited for the following posts in the Faculty of Engineering: 3. PETROLEUM ENGINEERING SENIOR LECTURER/ASSISTANT LECTURER IN CHEMICAL ENGINEERING

Applications are invited for the following posts in the Faculty of Engineering: 4. LECTURER/ASSISTANT LECTURER IN CIVIL ENGINEERING

Applications are invited from suitably qualified persons for appointment to the post of Professor and Head of the Department.

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THE BRITISH COUNCIL
ASTON IN BIRMINGHAM THE UNIVERSITY MANAGEMENT CENTRE
Applications are invited for the post of Lecturer in Marketing.

BRADFORD THE UNIVERSITY SENIOR LECTURER IN SOCIAL WORK
Applications are invited for the post of Senior Lecturer in Social Work.

BRADFORD THE UNIVERSITY ADMINISTRATIVE OFFICER
Applications are invited for the post of Administrative Officer in the Management Centre.

UNIVERSITY OF BRADFORD CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

UNIVERSITY OF BRADFORD CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

UNIVERSITY OF BRADFORD CHAIR IN OPHTHALMIC OPTICS
Applications are invited for the post of Chair in Ophthalmic Optics.

Universities continued

BIRMINGHAM DEPARTMENT OF INFLUENT AERIALITY Applications are invited for a Lecturer in the Department of Inherent Aeriality...

DURHAM THE UNIVERSITY DEPARTMENT OF ENGINEERING SCIENCES Applications are invited from persons with a B.Sc. degree...

DURHAM THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree in Chemistry...

DURHAM THE UNIVERSITY DEPARTMENT OF PHYSICS Applications are invited from persons with a B.Sc. degree in Physics...

ESSEX THE UNIVERSITY DEPARTMENT OF PHYSICAL SCIENCES Applications are invited from persons with a B.Sc. degree...

EAST ANGLIA THE UNIVERSITY OF NORWICH Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

KENYA UNIVERSITY OF NAIROBI Applications are invited from persons with a B.Sc. degree...

LIVERPOOL THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

MANCHESTER THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

NEWCASTLE UPON TYNE THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

LEEDS THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LIVERPOOL THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

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LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

NEW ZEALAND UNIVERSITY OF OTAGO Applications are invited from persons with a B.Sc. degree...

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LONDON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

MANCHESTER THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

NEWCASTLE UPON TYNE THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

SURREY THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

SOUTHAMPTON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

LONDON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

MANCHESTER THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

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LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

SALFORD THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

SOUTHAMPTON THE UNIVERSITY DEPARTMENT OF CHEMISTRY Applications are invited from persons with a B.Sc. degree...

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LONDON THE UNIVERSITY OF BIRMINGHAM Applications are invited from persons with a B.Sc. degree...

Polytechnics continued

Faculty of Engineering Department of Chemical Engineering Lecturer II/Senior Lecturer in Chemical Engineering

Faculty of Environmental Studies Department of Architecture Lecturer II/Senior Lecturer

Faculty of Business Department of Business Studies Research Assistant

Faculty of Science Department of Chemistry Associate Lecturer II in Archaeology

LIVERPOOL LIVERPOOL POLYTECHNIC Applications are invited from persons with a B.Sc. degree...

BRISTOL THE POLYTECHNIC DEPARTMENT OF ECONOMICS AND SOCIAL SCIENCES

HATFIELD THE HATFIELD POLYTECHNIC Applications are invited from persons with a B.Sc. degree...

MANCHESTER THE POLYTECHNIC Applications are invited from persons with a B.Sc. degree...

LONDON POLYTECHNIC OF THE CITY Applications are invited from persons with a B.Sc. degree...

SUSSEX Applications are invited from persons with a B.Sc. degree...

ULSTER COLLEGE THE NORTHERN IRELAND POLYTECHNIC

Faculty of Technology PRINCIPAL LECTURER-BUILDING Applications are invited from persons with a B.Sc. degree...

Faculty of the Arts PRINCIPAL LECTURER-FRENCH Applications are invited from persons with a B.Sc. degree...

Centre for Management Education LECTURER II-MANAGEMENT STUDIES

Department of Electrical & Electronic Engineering RESEARCH ASSISTANT

Department of Electrical & Electronic Engineering RESEARCH IN CONTROL ENGINEERING

National Children's Bureau Senior Research Officer

HEBBYBROOKSHEIRE Applications are invited from persons with a B.Sc. degree...

EAST ANGLIA THE UNIVERSITY OF NORWICH Applications are invited from persons with a B.Sc. degree...

DE LA SALLE COLLEGE OF HIGHER EDUCATION A Lecturer in Geography

SHEFFIELD CITY POLYTECHNIC

Department of Mechanical and Production Engineering Applications are invited for the post of:

Department of Mechanical and Production Engineering BRC CASE STUDENTSHIP

Department of Professional Studies RESEARCH ASSISTANT

Department of Electrical & Electronic Engineering RESEARCH IN CONTROL ENGINEERING

Department of Electrical & Electronic Engineering RESEARCH IN CONTROL ENGINEERING

HEBBYBROOKSHEIRE Applications are invited from persons with a B.Sc. degree...

EAST ANGLIA THE UNIVERSITY OF NORWICH Applications are invited from persons with a B.Sc. degree...

DE LA SALLE COLLEGE OF HIGHER EDUCATION A Lecturer in Geography

